



ELECTRICAL CHARACTERISTICS @ 25°C

1.0 TURNS RATIO: $(P_3 - P_5 - P_6) : (J_3 - J_6)$: 1CT : 1CT \pm 3%
 $(P_1 - P_4 - P_2) : (J_1 - J_2)$: 1CT : 1CT \pm 3%

2.0 INDUCTANCE: $(P_1 - P_2)$: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
 $(P_3 - P_6)$: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias

3.0 LEAKAGE INDUCTANCE: $P_6 - P_3$ (WITH J_6 AND J_3 SHORT) : 0.3 MAX. @ 1MHz
 $P_2 - P_1$ (WITH J_2 AND J_1 SHORT) : 0.3 MAX. @ 1MHz

4.0 INTERWINDING CAPACITANCE: (P_6, P_5, P_3) TO (J_6, J_3) : 30pf MAX @ 1MHz
 (P_2, P_4, P_1) TO (J_2, J_1) : 30pf MAX. @ 1MHz

5.0 DC RESISTANCE: $(J_6 - J_3) = (J_2 - J_1)$: 1.2 ohms Max.

RECEIVE

6.0 RETURN LOSS: $(P_6 - P_4) = 100$ OHMS AND $(P_1 - P_2) = 100$ OHM REF.
 1MHz TO 30MHz : 18dB MIN.
 60MHz TO 80MHz : 12dB MIN.

NOTE: 100 OHMS CONNECTED TO $(J_2 - J_1)$ OR $(J_6 - J_3)$.

7.0 DIELECTRIC WITHSTAND: (J_1, J_2) TO (P_1, P_2) : 1500 Vrms
 (J_3, J_6) TO (P_3, P_6) : 1500 Vrms

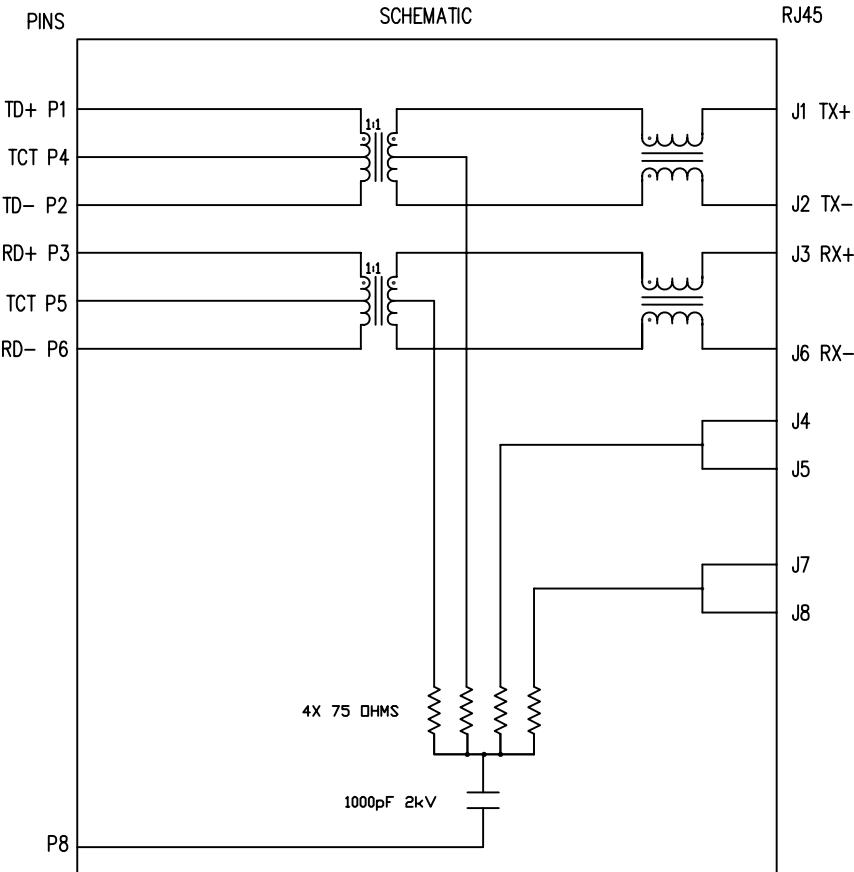
8.0 INSERTION LOSS: $RS = RL = 100$ ohms
 100KHz TO 100MHz : 1.1 dB TYP

9.0 RISE TIME: $RS = 100$ OHMS AND $RL = 100$ OHMS
 OUTPUT VOLTAGE = 1 V peak
 PULSE WIDTH= 112nS : 3.0 nS MAX
 : 3.0 nS MAX

10.0 CROSS TALK: 1MHz TO 100MHz : 40 dB TYP

11.0 COMMON TO COMMON MODE ATTENUATION: 30MHz TO 100MHz : 35dB TYP

12.0 OPERATING TEMPERATURE : 0°C TO 70°C

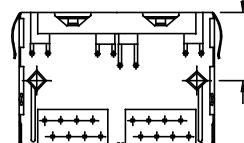
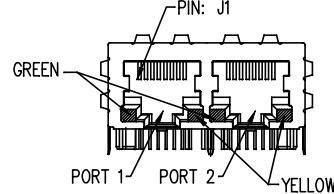
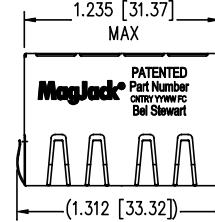
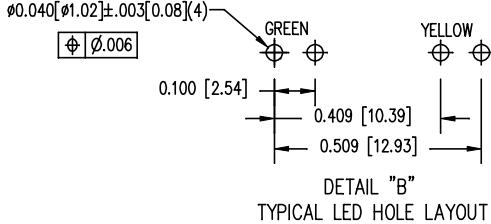


NOTES

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

ORIGINATED BY	DATE	TITLE	MagJack® 10/100BT TAB DOWN, SHIELDED PATENTED	PART NO. / DRAWING NO. SI-60159-F	STANDARD DIM. TOL. IN INCH		UNIT : INCH [mm]	REV. : A2
DRAWN BY	DATE				.X	.XX		
X.B Wei	05-24-10			FILE NAME SI-60159-F.DWG	.XX		SCALE : N/A	SIZE : A4
RS Zhang	05-24-10				.XXX	± 0.005		PAGE : 2

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LED SPECIFICATION			
STANDARD LED	WAVELENGTH	FORWARD V (MAX)	* (TYP)
GREEN	565 nm	2.5 V	2.2 V
YELLOW	590 nm	2.5 V	2.1 V

*WITH A FORWARD CURRENT OF 20 mA (TYP)

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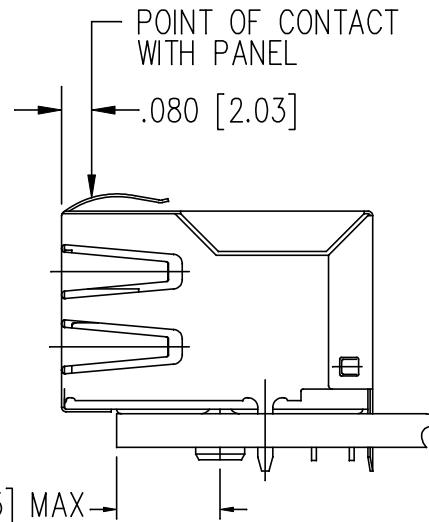
ORIGINATED BY DATE TITLE
X.B Wei 05-24-10 MagJack®
DRAWN BY DATE
RS Zhang 05-24-10 10/100BT
TAB DOWN, SHIELDED
PATENTED

PART NO. / DRAWING NO.
SI-60159-F
FILE NAME
SI-60159-F.DWG

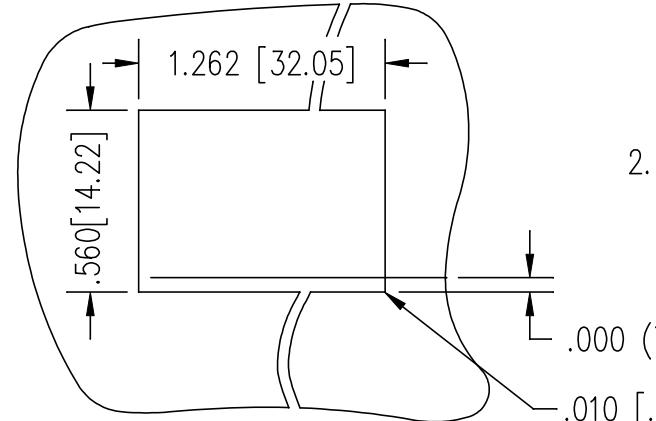
STANDARD DIM.
TOL. IN INCH
X
XX
XXX ± 0.005

[] METRIC DIM. AS REFERENCE
UNIT : INCH [mm] REV. : A2
SCALE : N/A SIZE : A4
PAGE : 3

bel
COMPONENTS FOR A CONNECTED PLANET



.275 [6.985] MAX



SUGGESTED PANEL OPENING

1. THE SUGGESTED PANEL OPENING IS INTENDED TO GIVE THE USER THE ABILITY TO HAVE REASONABLE JACK / PANEL CLEARANCES YET MAINTAIN RELIABLE GROUNDING CAPABILITY.
2. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE $\pm .005$ [0.13]

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